SC-169

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Seat No.	

S.E. (C.S.E.) (Semester - IV) Examination, November - 2019
COMPUTER ORGANIZATION
Sub. Code : 63533

Day and Date : Friday, 15 - 11 - 2019 **Total Marks : 50**
Time : 2.30 p.m. to 4.30 p.m.

Instructions :
1) **Question Q.1 & Question Q.4 are compulsory.**
2) **Attempt any one question from Q.2, Q.3 and one from Question Q.5, Q.6.**
3) **Figures to the right indicate full marks.**

Q1) a) With a neat diagram explain the structure of IBM system/360. **[7]**
b) What are user and supervisor programs? Explain CPU operation. **[6]**

Q2) a) Explain the architecture of AMD Processor. [6]
b) Explain the IEEE 754 standard 32 bit floating point format. **[6]**

Q3) a) Explain the big-endian and little-endian byte storage format. **[6]**
b) Explain the Booths algorithm with an example. **[6]**

Q4) a) Explain classical method of designing control unit for GCD processor. [7]
b) Explain non-restoring division algorithm for unsigned integers. **[6]**

Q5) a) Explain the four basic floating point arithmetic operations. **[6]**
b) With a neat diagram explain micro program controller. **[6]**

Q6) a) Write a short note on different memory types. **[6]**
b) Draw and explain the cache memory organization. **[6]**

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